



an Open Access Journal by MDPI

Aquatic Organisms as Disease Models

Guest Editors:

Prof. Dr. Jacek Z. Kubiak

Dynamics and Mechanics of Epithelia Group, Faculty of Medicine, Institute of Genetics and Development of Rennes, University of Rennes, CNRS, UMR 6290, 35043 Rennes, France

Prof. Dr. Malgorzata Kloc

Transplant Immunology, The Houston Methodist Research Institute, Houston, TX 77030, USA

Deadline for manuscript submissions: closed (31 May 2023)

Message from the Guest Editors

Aquatic organisms are an irreplaceable source of medicinal drugs and therapeutics, a perfect model system and indicator for many human diseases.

To mention a few examples, for several decades, the African clawed frog Xenopus laevis has been used for human pregnancy tests. Xenopus frogs are the perfect human ciliary-based model for kidney disease, and the Xenopus sex reversal is an excellent indicator of water contamination with endocrine disruptors that mimic human sex hormones and are present in the majority of cosmetics and everyday products. Zebrafish and squid eyes are a model for human ocular diseases, such as glaucoma, cataracts, photoreceptor degeneration, and cornea and retina disorders.

For this Special Issue, we invite research and review articles on the recent progress in aquatic organisms as a source of medication and models for human diseases. In addition, papers concerning markers of environmental pollutants and acting as a source of antipollutant compounds are also welcome.



mdpi.com/si/128931







an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

International Journal of Molecular Sciences Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/ijms ijms@mdpi.com X@IJMS_MDPI